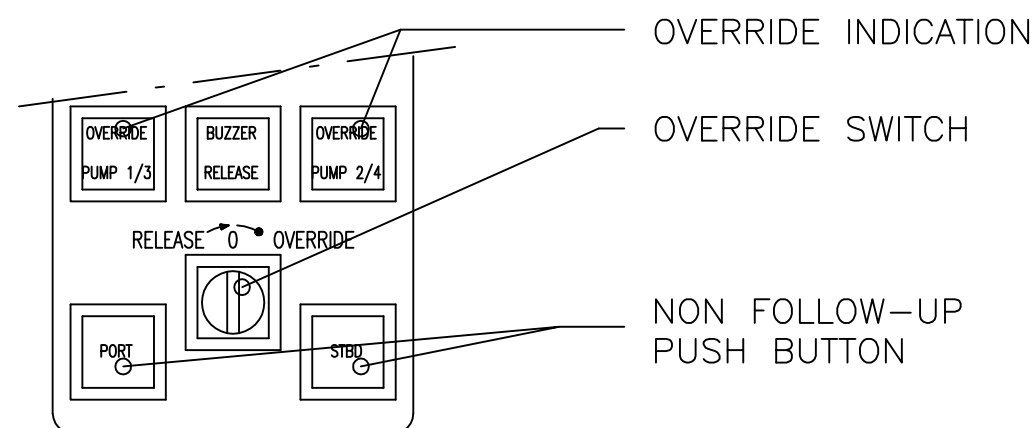


EMERGENCY STEERING PROCEDURE FOR FREQUENCY CONTROLLED STEERING GEAR.

FROM BRIDGE

The main control panel is supplied with non-follow-up push buttons with an override switch.

All other steering modes are disconnected when this steering mode is operated. To regain normal steering, turn the override switch to position "release".

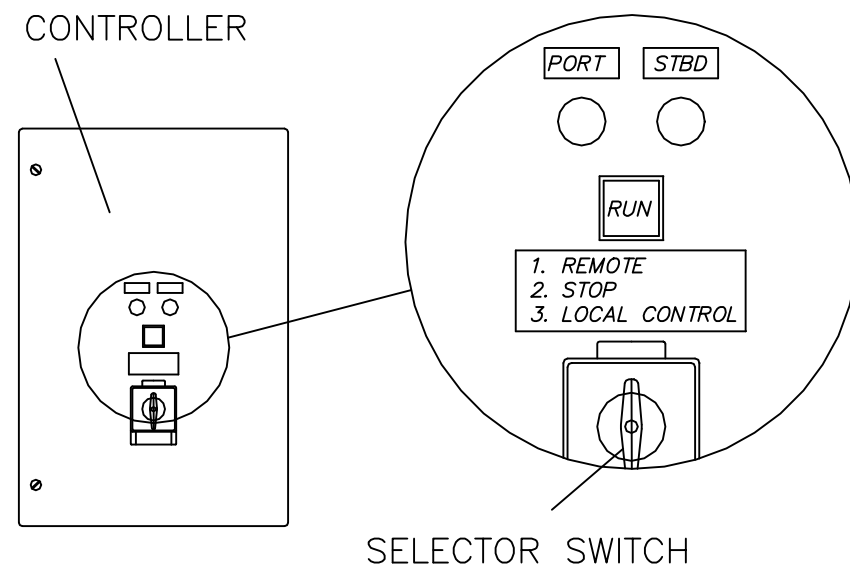


FROM STEERING GEAR ROOM

The maneuvering pump on the rudder motor can be operated manually by use of the emergency push button on the front of the motor controller.

The selector switch on the motor controller is to be turned to position "Local Control".

MOTOR CONTROLLER



STEERING GEAR ALARMS

Type of alarm, and action if alarm occurs:

Alarm: Overload pump no. n (el. motor overload) n=1,2,3 or 4

Action: Stop the faulty pump and start the other pump, if not already running.

Alarm: Phase failure pump no. n (phase failure to the frequency converter)

Action: Stop the faulty pump and start the other pump, if not already running.

Alarm: Power/Frequency Converter failure pump no. n (power failure to the freq.converter)

Action: Start the other pump, if not already running.

If the display of the Frequency Converter shows: "Auto Remote Trip Lock", switch off power in the motor controller until the display of the frequency converter goes blank, and then power up the system again to reset Trip Lock.

Alarm: Power failure control no. n (power failure steering control system)

Action: Stop the faulty pump and start the other pump, if not already running.

Alarm: Low oil level pump no. n (level switch mounted in the oil reservoir)

Action: Check the reason and refill oil.

Alarm: Hydraulic lock alarm pump no. n

Action: Stop the faulty pump and start the other pump, if not already running.

Alarm: Clogged filter pump no. n

Action: Check the reason and replace filter.

Alarm: High oil temp. pump no. n

Action: Stop the faulty pump and start the other pump, if not already running.

Alarm: Isolation valve failure pump no. n (failure of the solenoid coil)

Action: This alarm will autostart the standby pump, and autostop the faulty pump.

Confirm it by looking at the running indication. Error to the solenoid coil will be displayed by flashing display of the current monitoring relay in the MC while pump is running.

To inspect, switch MC in the SGR to pos. 3 LOCAL CONTROL, and start the faulty pump.

Upon identification of failing solenoid, stop the faulty pump and replace solenoid.

Alarm: Power failure aux. steering no. n (Power failure steering control system)

Action: Steer by means of the emergency steering.

Rev.	Date	Description	Eng.
C	13.02.13	Procedure for Power/Freq. alarm changed	ng
B	17.08.12		tab



Rolls-Royce

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FREQ. CONTR. STEERING GEAR
HIGH TEMP, CLOGGED FILTER ALARM

Original: Replaced for: Replaced by:

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Originator: T.Hel 16.12.10

Verified:

Reference:

EMERGENCY STEERING PROCEDURE
FOR STEERING GEAR
CONTROL SYSTEM

Draw.
no.

0002-2965

Rev.

C

Inst.

=SGCS

MSK

+